

The CBMS Workbench 2021 - Cycle 1

AGENDA

February 8 - 10, 2021

February 8 - Monday

Solution Scattering at LIX

09:30 Introduction

James Byrnes

09:40 Lecture: SAXS Overview

Shirish Chodankar

10:15 Lecture: Data Analysis

James Byrnes

10:45 Break Q&A

10:50 Lecture: General data processing for x-ray scattering I

Lin Yang

11:30 Software Packages Installation

Joint Session

12:00 Lecture - *Overview of the CBMS Program*

Sean McSweeney

12:15 Lecture - *The Cryo-Em Facility at BNL*

Liguo Wang (LBMS)

12:45 Q&A Break - Adjourn

Macromolecular Crystallography at A/FMX

13:00 Lecture: Overview of the MX beam lines

Jean Jakoncic & Martin Fuchs

13:30 Lecture - The Data collection Software and the LSDC user interface

Wuxian Shi

13:45 Q&A

14:30 Lecture - Estimate “your” dose

Martin Fuchs

15:00 Grab a coffee

15:15 Live Demonstration - Remote and Fully Automated Data Collection

Alex Soares

15:30 Lecture - User Access, Training and Outreach

Vivian Stojanoff

15:45 Live Demonstration - Data Collection on samples provided by staff

18:00 Adjourn

February 9 - Tuesday

Solution Scattering at LIX

09:00 Lecture - General data processing for x-ray scattering I

Lin Yang

10:00 Lecture - In-line SEC and sample prep

James Byrnes

10:30 Demo - Mail in protocol

Lin Yang

10:45 Data collection demo

Joint Session

12:00 Lecture - *"New protein folds and function in lipin phosphatidic acid phosphatases"*

Michael Airola (SBU)

12:30 Lecture - *"Recent Adventures and Advances in X-ray Footprinting at the ALS"*

Corie Ralston (ALS)

Macromolecular Crystallography at A/FMX

13:00 Data Collection by Users (AMX) - Remote Data Collection and Analysis by users

AMX team

13:00 Data Collection by Users (FMX) - Remote Data Collection and Analysis by users

FMX team

17:00 Adjourn

February 10 - Wednesday

Solution Scattering at LIX

9:00 Lecture - General data processing for x-ray scattering III

Lin Yang

10:00 Demo - Data modeling

10:15 General help and consultation for data processing and analysis

LIX staff

Joint Session

12:00 Lecture - *TBA*
John Flanagan (PennState)

Macromolecular Crystallography at A/FMX

12:30 Demonstration - Serial crystallography, data collection and analysis
Qun Liu (Biology, BNL)

13:30 Lecture - *Introduction to fast_dp and reprocessing at home with XDS*
Dale Kreitler

14:00 Lecture - *Reprocessing your data with AutoProc*
Kevin Battaile (NYSBC)

15:00 Demonstration - *Model building and refinement*
Seetharaman Jayaraman (St Jude Research Hospital)

16:00 Panel Discussion Q&A - We like to hear from you ... Suggestions for topics and questions
will be collected on the first day of the workbench.
CBMS team, speakers and participants

17:00 End of Program